FIG. 1

Sequence	MB DNA (%)		
GGCGCC=	0.1462	0.0020	73.12
GCCGGC=	0.2317	0.0062	37.19
GTCGAC=	0.0990	0.0116	8.56
CTCGAG=	0.0299	0.0038	7.96
CCCGGGG=	0.0645	0.0091	7.13
CACGTG=	0.0205	0.0030	6.74
CCCGAG=	0.0451	0.0069	6.58
CTCGGG6=	0.0392	0.0068	5.75
GCCGAC=	0.1435	0.0297	4.83
GTCGGC;=	0.1400	0.0295	4.74
CTCGGC=	0.1021	0.0217	4.71
GCCGAG=	0.1000	0.0218	4.58
GACGAG=	0.0493	0.0120	4.10
GCCGCG=	0.1781	0.0435	4.09
GACGTC=	0.0619	0.0151	4.09
GTCGAG≐	0.0677	0.0166	4.08
GTCGTC=	0.0755	0.0192	3.93
CTCGAC=	0.0643	0.0165	3.90
CCCGAČ=	0.0676	0.0175	3.86
CTCGTC=	0.0501	0.0130	3.86
CGCGGC=	0.1751	0.0455	3.85
GTCGGG=	0.0627	0.0165	3.79
TCCGAG=	0.0203	0.0054	3.78
GACGAC=	0.0747	0.0199	3.76
CTCGGA=	0.0202	0.0054	3.73

GCCGCC=	0.2336	0.0654	3.58
GCCGTC=	0.1008	0.0296	3.41
GGCGGC=	0.2237	0.0662	3.38
GCCGGT=	0.1302	0.0402	3.24
CCCGGC=	0.1183	0.0365	3.24
GACGGC=	0.1033	0.0327	3.16
CCCGCG=	0.0824	0.0263	3.13
GCCGGG=	0.1165	0.0373	3.13
CGCGGG=	0.0849	0.0273	3.11
ACCGGC=	0.1242	0.0405	3.07
GGCGGG=	0.0982	0.0323	3.04
CCCGCC=	0.0895	0.0329	3.02
CGCGGT=	0.1117	0.0372	3.00
ACCGCG=	0.1090	0.0368	2.97
ACCGAG=	0.0511	0.0175	2.92
GTCGGÆ	0.0331	0.0118	2.80
GGCGAC=	0.1005	0.0360	2.80
CTCGGT=	0.0494	0.0178	2.78
GTCGCC=	0.1056	0.0383	2.76
GTCGCG=	0.0884	0.0323	2.74
CACGTC=	0.0430	0.0158	2.73
TCCGAC=	0.0326	0.0121	2.70
CGCGAC=	0.0852	0.0320	2.66
Average	0.0498	0.0288	
Sum	12.7440	7.3865	

FIG. 2

a) (

b)

MB-ODN 4/5 (-CGXXCGXXXCG-)

No.	Sequence	Score
1	CTCCAcqGGcqGCAcqGCCA	11811
2	TGTCTeqGGeqGCAeqGTTG	11773
3	CAAGG eq G Te q GC Teq A TG G	11538
4	AACTG cqGAc qTGGcqGCAG	10931
5	GTCAG cqGAc qTGGcqGCTC	10829
6	AAAGG cg TGc gGG Tcg GCC C	10697
7	CTCAG cqGGcqGCAcqTGCA	10670
8	CACAAcqGGcqCCTcqGCTT	10319
9	ATGAAcqGGcqGCTcqAGCC	10240
10	GATGGcgATcgGCAcgCCCA	10199
11	CAGCAcqTGcqTGGcqGCAT	9962
12	GCTGGeqGGeqAGGeqATTC	9855
13	TGTTG eqCTeqGCTeqGCAG	9839
14	GGTGGeqGTeqAGGeqCTCT	9728
15	GGTGG cqCAc qCCT cqGCCC	9259
16	GGGGG egGTegCCTegCTAA	9250
17	GACATegGTegGCAegTCAG	9098
18	CCAGTeqGGeqGGGeqCTGG	9022
19	TCTGG eqGTe qAAG eqGCCC	8953
20	CAACTeqATeqGGGeqCCCA	8878
21	TTTGGcqGTcqGTGcqCAGC	8869
22	CCAGGeqGTeqGTGeqCAGG	8869
23	CTCCTcqGTcqAGGcqGTGG	8844
24	ACCATeqGGeqCCAeqTCTC	8780
25	CAACA egA Te g TG TegGCTG	8615
393	GTGTTcqAAcqCTAcqAACC	1681
394	AAGTA cqarc qat G cqagaa	1637
395	ACTAGeqTAeqCAGeqAATC	1539

MB-ODN 5/5 (-CGXXXCGXXXCG-)

No.	Sequence	Score
1	TGCTcqTGGcqGCTcqGCAG	12868
2	GAGGeqGCTeqGTGeqGGTC	12599
3	TTGGeqGCAeqCAAeqCCTC	11345
4	GAAGeqTTGeqGGGcqGCCC	11280
5	AAGGeqTGGeqGCTeqTGGA	11258
6	CAGGegATGegCCTegGCTC	10614
7	GTTGeqGGAcqAGTcqGCAT	10297
8	GGGGcqGGTcqACTcqACCA	10243
9	TGGTeqGGGeqGGTeqACTC	10153
10	ATCA eqCTA eqGGG eqGCCA	10063
11	GTGGeqCCAeqAGTeqACAT	10059
12	AAGGeqGCTeqCATeqATGG	10036
13	GAGGeqGGGeqGGTeqATCT	9743
14	AATTeqTGGeqGCTeqTGCA	9712
15	CAGG c qGTG c qGTG c qGCAT	9657
16	TAGGeqCTTeqAGTeqGCAC	9655
17	G TGR e qTCR e qGG T e qGCR G	9390
18	GCTTeqAGTeqGCAeqCCAG	9269
19	GTGTcqGGGcqAGGcqACCA	9164
20	TTGGcqTTGcqTGTcqGCCT	9034
21	TCATeqATGeqGGGeqCCAC	8959
22	GAGGeqGGGeqGGGAGA	8873
23	TAGG con TG co CAG co CCTG	8845
24	CAGGeqGTGeqGCAeqCAGT	8703
25	CTGAcgCCTcgGCTcgAGCT	8642
		_
352	ATTReqCTGeqAAAcqCAGT	1807
353	TAATeqGAAeqTAAeqATCC	1713
354	CATGeqTAReqTTReqGAAA	1219

FIG. 3

a) b)

MB-ODN 4/5 (-CGXXCGXXXCG-)

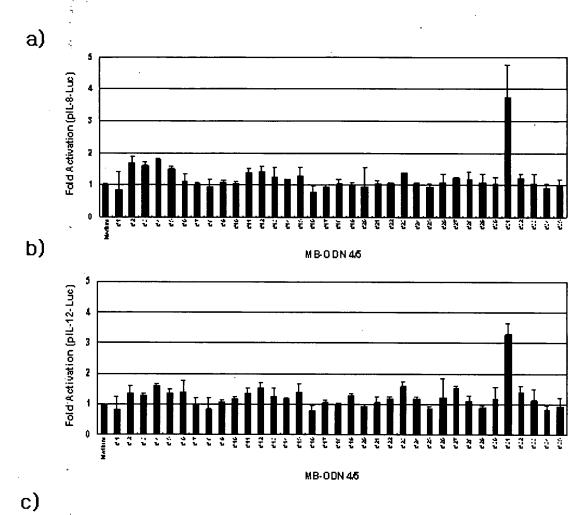
MB-ODN 5/5 (-CGXXXCGXXXCG-)

MB-0 DN4/5-2 CCAGTCGGGCGGGGGGGGTGG MB-0 DN4/5-2 GCTGGCGGGCGAGGCGATTC MB-0 DN4/5-3 ACCAGCGGGCGAGGCGATTC MB-0 DN4/5-4 GGTGGCGGGCGTTGCGCATC MB-0 DN4/5-5 GGCAGCGGGCGTTGCGCACCA MB-0 DN4/5-6 CTTGGCGGGCGTGCGACCA MB-0 DN4/5-7 AACTGCGGACGTGGCGCACCA MB-0 DN4/5-8 GGTCACGGTCGGATCGATTC MB-0 DN4/5-9 TTTGGCGGTCGGAGCGCTCT MB-0 DN4/5-10 GGTGGCGGTCGAGGGGCTCT MB-0 DN4/5-11 GGTGGCGGTCGAGGGGCTCT MB-0 DN4/5-12 TTTGTCGGTCGCAGCGGTCGCAC MB-0 DN4/5-13 CATGTCGAGCGGTCGGCAC MB-0 DN4/5-14 TTGGTCGAGCGCTGCGCAC MB-0 DN4/5-15 TTGGTCGAGCGCTACGGCAC MB-0 DN4/5-16 AGCATCGAGCGCCAACGGCAC MB-0 DN4/5-17 GGCAGCGAGCGCAACGCCAC MB-0 DN4/5-19 ATGCTCGAGCGCCCACGGCAC MB-0 DN4/5-19 ATGCTCGAGCGCTCGGCCA MB-0 DN4/5-20 GGCTTCGAACGGTTCGGCCA MB-0 DN4/5-21 CAACACGATCGTGCCCAACCCCAACCCCAACCCCCAACCCCCAACCCCCAACCCC	ODN	Sequence
MB-0DM4/5-2 CCTGGCGGCGAGGGGATTC MB-0DM4/5-3 ACCAGGGGGGGAGTGGCTG MB-0DM4/5-4 GGTGGGGGGGGTTGGGCATC MB-0DM4/5-5 GGCAGGGGGGGTTGGGCATC MB-0DM4/5-8 CTTGGCGGGCGGTGGGGGCACA MB-0DM4/5-9 CTTGGCGGCGGTGGGGGCACA MB-0DM4/5-9 TTTGGCGGTCGGAGGGGCTCT MB-0DM4/5-10 GGTGGCGGTCGAGGGGCTCT MB-0DM4/5-11 GGTGGCGGTCGAGGGGCTCT MB-0DM4/5-12 TTTGTCGGTCGAAGGGGCTCT MB-0DM4/5-13 GATGTCGAGCGGATCGGCAC MB-0DM4/5-14 TTGCTCGAGCGGTCGGCAC MB-0DM4/5-15 TTGGTCGAGCGGTCGGCAC MB-0DM4/5-16 AGCATCGAGCGCAACGACAC MB-0DM4/5-17 GGCACCGAGCGCAACGACAC MB-0DM4/5-19 ATGCTCGAGCGCCAACGACAC MB-0DM4/5-19 ATGCTCGAGCGCCCACGGCAC MB-0DM4/5-20 GGCTTCGAACGGTCGCCCA MB-0DM4/5-21 GATGCCGAACGTTCGACCC MB-0DM4/5-22 CTTGTCGAACGGTTCGACAC MB-0DM4/5-23 CAACACGATCGTTCGACCC MB-0DM4/5-24 CAACACGATCGTGCCCAACCCC MB-0DM4/5-29 CCAACACGATCGCCAACGCTC MB-0DM4/5-29		
MB-ODN4/5-2		CCTCCCCCCCCCACCCCATTC
MB-ODM4/5-4 GGTGGCGGGCGTTGGGCATC MB-ODM4/5-5 GGCAGCGGGGGCATGGCCAG MB-ODM4/5-6 CTTGGCGGGCGCATGGCCAG MB-ODM4/5-8 GGTCACGGTGGGAGCGCAG MB-ODM4/5-9 GGTCACGGTCGGATCGATTC MB-ODM4/5-10 GGTGGCGGTCGAGCGCTGT MB-ODM4/5-11 GGTGGCGGTCGAGGGGCTCT MB-ODM4/5-12 TTTGTCGGTCGAAGCGCTCT MB-ODM4/5-13 GATGTCGAGCGGTCGAGAAAA MB-ODM4/5-14 TTGCTCGAGCGGTTCGGCAC MB-ODM4/5-15 TTGGTCGAGCGGTTCGGCAC MB-ODM4/5-16 AGCATCGAGCGGTCGGCAC MB-ODM4/5-17 GGCAGCGAGCGCAACCAC MB-ODM4/5-18 CTCATCGAGCGCAACGACAC MB-ODM4/5-19 ATGCTCGAGCGCCACGCAG MB-ODM4/5-19 ATGCTCGAGCGCCCACGCCAC MB-ODM4/5-20 GGCTTCGAACGGTCGGCCA MB-ODM4/5-21 GATGGCGAACGTCAGCCAC MB-ODM4/5-22 CTTGTCGAACGGTCGGCCA MB-ODM4/5-23 CAGATCGACGCTCGGCCA MB-ODM4/5-24 CAGTTCGATCGACCCCAC MB-ODM4/5-25 GTAGGCGATCGACCCC MB-ODM4/5-26 CAACACGATCGTTCGACCC MB-ODM4/5-27 CTAGGCGATCGACGCCCAA MB-ODM4/5-29 GCCACCGATCGGCCCA MB-ODM4/5-29 CCACACGATCGCCCACGTGG MB-ODM4/5-29 GGCAGCGTGGCGCACCCT MB-ODM4/5-29 TAAGGCGTCGGCCACCTT MB-ODM4/5-29 TAAGGCGTGCGCACCCT MB-ODM4/5-29 CCACACGATCGCTCGCCT MB-ODM4/5-29 TAAGGCGTGCGCACCCT MB-ODM4/5-29 TAAGGCGTGCGCACCCT MB-ODM4/5-29 TAAGCCGTTCGTGTCGGCCT MB-ODM4/5-29 TAAGGCGTGCGCACCCCT MB-ODM4/5-29 TAAGGCGTGCGCACCCCCT MB-ODM4/5-29 TAAGGCGTGCGCACCCCT MB-ODM4/5-29 TAAGGCGTGCGCACCCCCCCCCCCCCCCCCCCCCCCCCC		ACCAGCGGGCGAGTCGCCTG
MB-ODM4/5-8 GCCACCGGCCCACCCAC MB-ODM4/5-8 CTTGGCGGCGCGCTGCGCACCA MB-ODM4/5-7 AACTGCGGACGTGGGGGCAC MB-ODM4/5-9 GGTCACGGTCGGATCGATTC MB-ODM4/5-9 TTTGGCGGTCGGATCGATTC MB-ODM4/5-10 GGTGGCGGTCGAGGCGCTCT MB-ODM4/5-11 GGTGGCGGTCGAGGCGCTCT MB-ODM4/5-12 TTTGTCGGTCGCAACGAAAA MB-ODM4/5-13 GATGTCGAGCGGTCGGCAC MB-ODM4/5-14 TTGCTCGAGCGGTCGGCAC MB-ODM4/5-15 TTGGTCGAGCGGTCGGCAC MB-ODM4/5-16 AGCATCGAGCGCAACGACAC MB-ODM4/5-17 GGCACCGAGCGCTCGGCCAC MB-ODM4/5-19 ATGCTCGAGCGCCAACGACACC MB-ODM4/5-19 ATGCTCGAGCGCCACGGCCAC MB-ODM4/5-20 GGCTTCGAACGGTCGGCCCACGGCCAC MB-ODM4/5-21 GATGCCGAACGGTCACCCCACGCCACCCCCACGCCCACGCCCACCCCCCCC	<u> </u>	GGTGGCGGGCGTTGCGCATC
MB-0 DN4/5-8 CTTGGCGGGCGCTGCGACCA MB-0 DN4/5-7 AACTGCGGACGTGGCGGCAC MB-0 DN4/5-8 GGTCACGGTCGGATCGATTC MB-0 DN4/5-9 TTTGGCGGTCGGACGCCCC MB-0 DN4/5-10 GGTGGCGGTCGAGGCGCTCT MB-0 DN4/5-11 GGTGGCGGTCGAGGCGCTCT MB-0 DN4/5-12 TTTGTCGGTCGCAGCGCTCT MB-0 DN4/5-13 CATGTCGAGCGGATCGGCAC MB-0 DN4/5-14 TTGCTCGAGCGGATCGGCAC MB-0 DN4/5-15 TTGGTCGAGCGCACGCTGGTC MB-0 DN4/5-16 AGCATCGAGCGCACGCTGGTC MB-0 DN4/5-17 GGCAGCGAGCGCAACGACAC MB-0 DN4/5-19 ATGCTCGAGCGCCAACGACAC MB-0 DN4/5-19 ATGCTCGAGCGCCCACGCCAC MB-0 DN4/5-20 GGCTTCGAACGGTCGACGCCAC MB-0 DN4/5-21 CATGCGAACGTGACGTCAT MB-0 DN4/5-22 CTTGTCGAACGTTCGACACCCC MB-0 DN4/5-24 CAGTTCGATCGAGCACCCC MB-0 DN4/5-25 CTAGGCGATCGATCGCCACGTGG MB-0 DN4/5-29 CCAACACGATCGCCACGCTGG MB-0 DN4/5-29 CCAACACGATCGCCACCGTGG MB-0 DN4/5-20 TAAGCCGTCGGTGCCATCGATAT MB-0 DN4/5-32 TGTTCCGCACGGTGCCATCGCTGC <tr< td=""><td></td><td>GGCAGCGGGCGCATCGCCAG</td></tr<>		GGCAGCGGGCGCATCGCCAG
MB-ODM4/5-2 AACTCCGGACGTGGCGCAG MB-ODM4/5-8 GGTCACGGTCGGATCGATTC MB-ODM4/5-9 TTTGGCGGTCGGAGCGCAGC MB-ODM4/5-10 GGTGGCGGTCGAGGCGCTCT MB-ODM4/5-11 GGTGGCGTCGAGGCGCTCT MB-ODM4/5-12 TTTGTCGGTCGCAGCGCTCT MB-ODM4/5-13 GATGTCGAGCGGTCGGCAC MB-ODM4/5-14 TTGCTCGAGCGGTTCGGCAC MB-ODM4/5-15 TTGGTCGAGCGGTTCGGCAT MB-ODM4/5-16 AGCATCGAGCGCTGGTCGGGTC MB-ODM4/5-17 GGCAGCGAGCGCAACGACAC MB-ODM4/5-19 ATGCTCGAGCGCCACGGCAC MB-ODM4/5-19 ATGCTCGAGCGCCCACGGCAC MB-ODM4/5-20 GATGGCGAACGTCAGCCCC MB-ODM4/5-21 GATGGCGAACGTGACGTCAT MB-ODM4/5-22 CTTGTCGAACGTTCGGCCA MB-ODM4/5-23 GAGATCGAACGTTCGACCC MB-ODM4/5-24 CAGTTCGATCGACCCCC MB-ODM4/5-25 GTAGGCGATCGATCGCCCACCCCCCCCCCCCCCCCCCCC		CTTGGCGGGGGGCTGCGACCA
MB-ODM4/5-8 GETCACGETCGGATCGATTC MB-ODM4/5-9 TTTGGCGGTCGGATCGATCC MB-ODM4/5-10 GETGGCGGTCGAGGCGTCT MB-ODM4/5-11 GETGGCGGTCGAGGCGCTCT MB-ODM4/5-12 TTTGTCGGTCGCAACGAAAA MB-ODM4/5-13 GATGTCGAGCGGATCGGCAC MB-ODM4/5-14 TTGCTCGAGCGGTTCGGCAC MB-ODM4/5-15 TTGGTCGAGCGGTCGGCAC MB-ODM4/5-16 AGCATCGAGCGCTCGGCGC MB-ODM4/5-17 GGCGAGCGCACGCACGCAC MB-ODM4/5-18 CTCATCGAGCGCCACGCAC MB-ODM4/5-19 ATGCTCGAGCGCCACGGCAC MB-ODM4/5-19 ATGCTCGAGCGCCACGGCAC MB-ODM4/5-20 GGCTTCGAACGGTCGACGC MB-ODM4/5-21 GATGCCGAACGGTCGACCC MB-ODM4/5-22 CTTGTCGAACGGTCGGCCA MB-ODM4/5-23 GAGATCGAACGGTCGACCC MB-ODM4/5-24 CAGTTCGATCGACCCC MB-ODM4/5-25 GTAGGCGATCGATCGCCCAA MB-ODM4/5-26 CAACACGATCGTGCGCCG MB-ODM4/5-29 CCACACGATCGTGCGCCG MB-ODM4/5-29 CCACACGATCGCCCACGTGG MB-ODM4/5-29 GGCAGCGTGCGCGCGCTGG MB-ODM4/5-29 TAAGGCGTGCGCACGCTGG MB-ODM4/5-29 TAAGGCGTGCGCACGCTGG MB-ODM4/5-21 AGCAGCGTTCGTGTCGGCCT MB-ODM4/5-22 TGTTGCGCACGGTGCGCCTGC MB-ODM4/5-23 TGTTGCGCACGGTGCGCTGC MB-ODM4/5-24 TGTTGCGCACGGTGCGCTGC MB-ODM4/5-25 TGTTGCGCACGGTGCGCTGCCTGCCTGCCCTGCCCTGCC		AA CTGCGGA CGTGGCGGGA G
MB-ODM/5-10 GGTGGGGTGGGCGCGCGCGCGCGCGCGGGGGGGGGGGG		CGTCACCGTCCGATCGATTC
MB-ODN4/5-11 GGTGCGGTCGAGGGGCTCT MB-ODN4/5-12 TTTGTCGGTCGAAGGAAAA MB-ODN4/5-13 GATGTCGAGCGGATCGGCAC MB-ODN4/5-14 TTGCTCGAGCGGATCGGCAC MB-ODN4/5-15 TTGGTCGAGCGGTTCGGCAT MB-ODN4/5-16 AGCATCGAGCGCACGGTGGT MB-ODN4/5-17 GGCAGCGAGCGCAACGACAC MB-ODN4/5-19 CTCATCGAGCGCCACGGCAC MB-ODN4/5-19 ATGCTCGAGCGCCACGGCAC MB-ODN4/5-20 GGCTTCGAACGGTCGACGC MB-ODN4/5-21 CATGCCGAACGTCACT MB-ODN4/5-22 CTTGTCGAACGTCACC MB-ODN4/5-23 CAGATCGAACGTCTCGACC MB-ODN4/5-24 CAGTTCGATCGACCCCC MB-ODN4/5-25 GTAGGCGATCGATGCGCCAA MB-ODN4/5-26 CAACACGATCGTCTCGCCCA MB-ODN4/5-27 CTAGGCGATCGTTCGGCCG MB-ODN4/5-29 CCACACGATCGCCACGTGG MB-ODN4/5-29 CCACACGATCGCCACGTGG MB-ODN4/5-20 TAAGGCGTCGCGCACGTGG MB-ODN4/5-21 AGCACGTTCGGTCGCCT MB-ODN4/5-22 TGTTGCGCACGGTGCCCTGC MB-ODN4/5-23 TGTTGCGCACGGTGCCCTGC MB-ODN4/5-24 TGTTGCGCACGGTGCCCTGC MB-ODN4/5-25 TGTTGCGCACGGTGCCCTGC MB-ODN4/5-21 AGCACGTTCGTGTCGCCTT MB-ODN4/5-22 TGTTGCGCACGGTGCCCTGC MB-ODN4/5-23 CTGGGCGCACGGCACCCTGC		TTTGGCGGTCGGTGCGCAGC
MB-ODN4/5-11 GGTGGGGTCGAGGGGCTCT MB-ODN4/5-12 TTTGTCGGTCGCAGGGGTCGAAAA MB-ODN4/5-13 GATGTCGAGCGGATCGGCAC MB-ODN4/5-14 TTGGTCGAGCGGTTCGGCAT MB-ODN4/5-15 TTGGTCGAGCGGTGCGGGTG MB-ODN4/5-16 AGCATCGAGCGCAGCGTGGT MB-ODN4/5-19 CTCATCGAGCGCCACGGCAG MB-ODN4/5-19 ATGGTCGAGCGCCACGGCAG MB-ODN4/5-20 GGCTTCGAACGGTCGAGGG MB-ODN4/5-21 GATGCGAACGGTCGACGC MB-ODN4/5-22 CTTGTCGAACGGTCGACAC MB-ODN4/5-24 CAGTTCGATCGACAC MB-ODN4/5-25 GTAGGCGATCGATCGACCC MB-ODN4/5-26 CAACACGATCGTCGGCCA MB-ODN4/5-26 CAACACGATCGTGCGCTG MB-ODN4/5-27 CTAGGCGATCGACGATGGGCTG MB-ODN4/5-29 CCACACGATCGTGCGCTG MB-ODN4/5-29 CCACACGATCGCCCACGTGG MB-ODN4/5-29 CCACACGATCGCCCACGTGG MB-ODN4/5-29 GGCAGCGTGCGCATCGATAT MB-ODN4/5-21 AGCAGCGTTCGTGTCGGCCT MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCACGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCACGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCACGCTGC MB-ODN4/5-22 TGTTGCGCACGGGCACGCCACGCTGC MB-ODN4/5-22 TGTTGCGCACGGCACGCACGCTGC MB-ODN4/5-22 TGTTGCGCACGGCACGCGCACGCTGCACCACGCACCGCACGCA	MB-0DN4/5-10	GGTGGCGGTCGAGGCGCTCT
MB-ODM/5-12 TTTGTCGGTCGCAACGAAAA MB-ODM/5-18 GATGTCGAGCGGATCGGCAC MB-ODM/5-14 TTGCTCGAGCGGATCGGCAC MB-ODM/5-15 TTGGTCGAGCGGTGTCGGCAT MB-ODM/5-16 AGCATCGAGCGCAGCGTGGT MB-ODM/5-17 GGCAGCGAGCGCAACGACAC MB-ODM/5-19 CTCATCGAGCGCCAACGACAC MB-ODM/5-19 ATGCTCGAGCGCCACGGCAGGCACACACACACACACACAC		GGTGGCGGTCGAGGCGCTCT
MB-ODN4/5-18		TTTGTCGGTCGCAACGAAAA
MB-ODN4/5-15 MB-ODN4/5-16 AGCATCGAGCGCAGCGTGGT MB-ODN4/5-17 GGCAGCGAGCGCAACGACAC MB-ODN4/5-19 ATGCTCGAGCGCCACGGCAC MB-ODN4/5-19 ATGCTCGAGCGCCACGGCAC MB-ODN4/5-20 GGCTTCGAACGGTCGAGCGC MB-ODN4/5-21 GATGCCGAACGTTCGACC MB-ODN4/5-22 CTTGTCGAACGTTCGACCC MB-ODN4/5-23 GAGATCGAACGTTCGACCC MB-ODN4/5-24 CAGTTCGATCGAGACGTTCGACAC MB-ODN4/5-25 GTAGGCGATCGATGCGCCA MB-ODN4/5-26 CAACACGATCGTGCGCCC MB-ODN4/5-29 CCACACGATCGCCACGTGG MB-ODN4/5-29 CCACACGATCGCCACGTGG MB-ODN4/5-29 GGCAGCGTGCGCACGTGG MB-ODN4/5-29 TAAGGCGTGCGCACCGTGC MB-ODN4/5-21 AGCAGCGTTCGTTCGGCCT MB-ODN4/5-21 AGCAGCGTTCGTTCGGCCT MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-23 CTGGGCGCACGGTGCGCTGC MB-ODN4/5-23 CTGGGCGCACGGTGCGCTGCCTGC MB-ODN4/5-23 CTGGGCGCACGGTGCGCACGCTGC MB-ODN4/5-23 CTGGGCGCACGGTGCGCACGCTGC MB-ODN4/5-23 CTGGGCGCACGGCACGCTGC		CATGTCGAGCGGATCGGCAC
MB-ODM/5-16 AGCATCGAGCGCAGCGTGGT MB-ODM/5-17 GGCAGCGAGCGCAGCGTGGT MB-ODM/5-19 CTCATCGAGCGCCACGGCAGCMAGACAC MB-ODM/5-19 ATGCTCGAGCGCCACGGCAGCMAGACGCCACGCAGCMAGACGTCGAGGGCAGCGCAGGGCAGG	MB-0DN4/5-14	TTGCTCGAGCGGTTCGGCAT
WB-ODN4/5-17 GCCACCAGCGCAACGACAC WB-ODN4/5-19 CTCATCGAGCGCCACGGCAG WB-ODN4/5-19 ATGCTCGAGCGCCACGGCAG WB-ODN4/5-20 GCCTTCGAACGGTCGAGGG WB-ODN4/5-21 GATGCCGAACGTGACGTCAT WB-ODN4/5-22 CTTGTCGAACGTTCCGGCCA WB-ODN4/5-28 GAGATCGAACGTTCGGCCA WB-ODN4/5-24 CAGTTCGATCGAGACGCT WB-ODN4/5-25 GTAGGCGATCGATGCGCCAA WB-ODN4/5-26 CAACACGATCGTGCGCCA WB-ODN4/5-27 CTAGGCGATCGCAACGGTG WB-ODN4/5-29 CCACACGATCGCCACGTGG WB-ODN4/5-29 GGCAGCGTGGCGACGATT WB-ODN4/5-20 TAAGGCGTGCGCACGTGG WB-ODN4/5-20 TAAGGCGTGCGCACGTGG WB-ODN4/5-20 TAAGGCGTGCGCATCGATAT WB-ODN4/5-21 AGGAGCGTTCGTGTCGCCT WB-ODN4/5-22 TGTTCCGCACGGTGCCTGC	MB-0DN4/5-15	TTGGTCGACCGTGTCGCGTG
MB-ODN4/5-19 CTCATCGAGCGCCACGGCAG MB-ODN4/5-19 ATGCTCGAGCGCCCACGGCAG MB-ODN4/5-20 GGCTTCGAACGGTCGAGGG MB-ODN4/5-21 CATGCCGAACGTGACGTCAT MB-ODN4/5-22 CTTGTCGAACGTTCTGGACAC MB-ODN4/5-24 CAGTTCGACGCTCTGGACAC MB-ODN4/5-24 CAGTTCGATCGAGACGCTCGACAC MB-ODN4/5-25 GTAGGCGATCGATGCGCCAA MB-ODN4/5-26 CAACACGATCGTGTCGGCTG MB-ODN4/5-27 CTAGGCGATCGCAACGAGT MB-ODN4/5-29 CCACACGATCGCCACGTGG MB-ODN4/5-29 GGCAGCGTGGCGTGACGACTT MB-ODN4/5-30 TAAGGCGTGCGTGACGATT MB-ODN4/5-31 AGCAGCTTCGTGTCGCCT MB-ODN4/5-32 TGTTGCGCACGGTGCGTGC MB-ODN4/5-32 TGTTGCGCACGGTGCGTGC	MB-0DN4/5-16	ACCATCGACCCCACCCTCCT
MB-ODN4/5-19 ATGCTCGAGCGCCTCGGCCC MB-ODN4/5-20 GGCTTCGAACGGCTCGAGGG MB-ODN4/5-21 GATGCGGAACGTGACGTCAT MB-ODN4/5-22 CTTGTCGAACGCTCGGCCA MB-ODN4/5-28 GAGATCGAACGCTTCGACAC MB-ODN4/5-24 CAGTTCGATCGATCGCCCA MB-ODN4/5-25 GTAGGCGATCGATGCGCCAA MB-ODN4/5-26 CAACACGATCGTGTCGGCTG MB-ODN4/5-27 CTAGGCGATCGCGCAACGAAGT MB-ODN4/5-29 CCACACGATCGCCCAACGAAGT MB-ODN4/5-29 CGCACGGTGCGTGACGACTT MB-ODN4/5-29 TAAGGCGTGCGCACGATGT MB-ODN4/5-20 TAAGGCGTGCGCATCGATAT MB-ODN4/5-21 AGGAGCGTTCGTGTCGCCCT MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC	MB-0DN4/5-17	CCCACCGACCCCAACGACAC
MB-ODM/5-20 GGCTTCGAACGGTTCGAGGG MB-ODM/5-21 GATGCCGAACGTTCAT MB-ODM/5-22 CTTGTCGAACGTTCGGCCA MB-ODM/5-28 GAGATCGAACGCTTCGACAC MB-ODM/5-24 CAGTTCGATCGATCGCCCA MB-ODM/5-25 GTAGGCGATCGATGCGCCAA MB-ODM/5-26 CAACACGATCGTGTCGGCTG MB-ODM/5-27 CTAGGCGATCGCAACGAAGT MB-ODM/5-29 CCACACGATCGCACGAGGGG MB-ODM/5-29 GCCACGGTGCGTGACGACTT MB-ODM/5-29 TAAGGCGTGCGTGACGACTT MB-ODM/5-29 TGTGCGCACGGTGCCTGCCTG MB-ODM/5-29 TGTGCGCACGGTGCGCCTGC MB-ODM/5-20 TAAGGCGTGCGCATCGATAT MB-ODM/5-21 AGGAGCGTTCGTGTCGCCCT MB-ODM/5-22 TGTTGCGCACGGTGCGCTGC	MB-0DN4/5-18	CTCATCGAGCGCCACGGCAG
MB-ODN4/5-21 CATGCCGAACGTGACGTCAT MB-ODN4/5-22 CTTGTCGAACGTGACGTCAC MB-ODN4/5-23 CAGATCGAACGCTTCGACAC MB-ODN4/5-24 CAGTTCGATCGAGACGCCC MB-ODN4/5-25 GTAGGCGATCGATGCGCCAA MB-ODN4/5-26 CAACACGATCGTGTCGGCTG MB-ODN4/5-27 CTAGGCGATCGCAACGAAGT MB-ODN4/5-29 CCACACGATCGCAACGAGT MB-ODN4/5-29 GGCAGCGTGCGCACGATGT MB-ODN4/5-20 TAAGGCGTGCGCACGATGT MB-ODN4/5-20 TAAGGCGTGCGCACGATGT MB-ODN4/5-21 AGCAGCGTCGGTGCCCT MB-ODN4/5-22 TGTTGCGCACGGTGCCTGC MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC	MB-0DN4/5-19	AFGCTCGAGCGCCTCGGCCC
MB-ODM/5-22 CTTGTCGAACGTCTCGGCCA MB-ODM/5-28 GAGATCGAACGTTTCGACAC MB-ODM/5-24 CAGTTCGATCGAGACGCTCGACAC MB-ODM/5-25 GTAGGCGATCGATGCGCCAA MB-ODM/5-26 CAACACGATCGTGTCGGCTG MB-ODM/5-27 CTAGGCGATCGCAACGAAGT MB-ODM/5-29 CCACACGATCGCCACGGTGG MB-ODM/5-29 GGCAGCGTGCGTGACGACTT MB-ODM/5-20 TAAGGCGTGCGTGACGACTT MB-ODM/5-20 TAAGGCGTGCGCATCGATAT MB-ODM/5-21 AGGAGCGTTCGTGTCGCCT MB-ODM/5-22 TGTTGCGCACGGTGCCTGC MB-ODM/5-22 TGTTGCGCACGGTGCGCTGC	MB-0DN4/5-20	GCCTTCGAACGGGTCGAGGG
WB-ODM/5-28 CAGATCGAACGCTTCGACAC WB-ODM/5-24 CAGTTCGATCGAGACGCCC WB-ODM/5-25 GTAGGCGATCGATGCGCCAA WB-ODM/5-26 CAACACGATCGTGTCGGCTG WB-ODM/5-27 CTAGGCGATCGCAACGAAGT WB-ODM/5-29 CCACACGATCGCAACGAGTG WB-ODM/5-29 GGCAGCGTGCGTGACGACTT WB-ODM/5-20 TAAGGCGTGCGCATCGATAT WB-ODM/5-21 AGCAGCGTTCGTGTCGGCCT WB-ODM/5-22 TGTTGCGCACGGTGCCTGC	MB-0DN4/5-21	CATCCCCAACCTCACCTCAT
MB-ODM/5-24 CAGTTCGATCGAGACGACCC WB-ODM/5-25 GTAGGCGATCGATGCGCCAA MB-ODM/5-26 CAACACGATCGCTGTCGGCTG MB-ODM/5-27 CTAGGCGATCGCAACGAAGT MB-ODM/5-29 CCACACGATCGCAACGAGT MB-ODM/5-29 GGCAGCGTGCGTGACGACTT MB-ODM/5-20 TAAGGCGTGCGCATGGTAT MB-ODM/5-21 AGCAGCGTTCGTGTCGGCCT MB-ODM/5-22 TGTTGCGCACGGTGCGCTGC MB-ODM/5-22 TGTTGCGCACGGTGCGCTGG	ИВ-ODN4/5-22	CTTGTCGAACGTCTCGGCCA
WB-ODM/5-25 GTAGGCGATCGATGCGCCAA WB-ODM/5-26 CAACACGATGGTCGGCTG WB-ODM/5-27 CTAGGCGATCGCAACGAAGT WB-ODM/5-29 CCACACGATCGCCACGGTGG WB-ODM/5-29 GGCAGCGTGCGTGACGACTT WB-ODM/5-20 TAAGGCGTGCGCATCGATAT WB-ODM/5-21 AGCAGCGTCGTGTCGCCCT WB-ODM/5-22 TGTTGCGCACGGTGCGCTGC WB-ODM/5-22 TGTTGCGCACGGTGCGCTGG	MB-0DN4/5-28	CA GATEGAA EGETTEGA CA E
MB-ODM/5-28 CAACACGATCGTGTCGCCTG MB-ODM/5-27 CTAGGCGATCGCAACGAGGT MB-ODM/5-29 CCACACGATCGCCACGGTGG MB-ODM/5-29 GGCAGCGTGCGTGACGACTT MB-ODM/5-80 TAAGGCGTGGGCATCGATAT MB-ODM/5-81 AGCAGCGTTCGTGTCGGCCT MB-ODM/5-82 CTGGGCGCACGGTGCGCTGG MB-ODM/5-83 CTGGGCGCACGGCACGCTGG	ИВ-0DN4/5-24	
MB-ODN4/5-27 CTAGGCGATCGCAACGAAGT MB-ODN4/5-29 CCACACGATCGCCACGGTGG MB-ODN4/5-29 GGCAGCGTGCGTGACGACTT MB-ODN4/5-20 TAAGGCGTGCGCATCGATAT MB-ODN4/5-21 AGCAGCGTTCGTGTGGGCCT MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-23 CTGGGCGCACGGCACGCTGG	MB-0DN4/5-25	
WB-ODN4/5-29 CCACACGATCGCCACGGTGG WB-ODN4/5-29 GGCAGCGTGCGTGACGACTT WB-ODN4/5-20 TAAGGCGTGCGCATCGATAT WB-ODN4/5-21 AGCAGCGTTCGTGTCGCCCT WB-ODN4/5-22 TGTTGCGCACGGTGCGCTGG WB-ODN4/5-23 CTGGGCGCACGGCACGCTGG		CAACACGATCGTGTCGGCTG
MB-ODN4/5-29 GGCAGCGTGCGTGACGACTT MB-ODN4/5-20 TAAGGCGTGCGCATCGATAT MB-ODN4/5-21 AGCAGCGTTCGTGTCGGCCT MB-ODN4/5-22 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-23 CTGGGCGCACGGCACGCTGG	ИВ-ODN4/5-27	
MB-ODN4/5-80 TAAGGCGTGCGCATGGATAT MB-ODN4/5-81 AGCAGCGTTCGTGTGGGCCT MB-ODN4/5-82 TGTTGCGCACGGTGCGCTGC MB-ODN4/5-83 CTGGGCGCACGGCACGCTGG	MB-0DN4/5-29	CCACACGATCGCCACGGTGG
MB-ODM4/5-81 AGCAGCGTTCGTGTCGGCCT MB-ODM4/5-82 TGTTGCGCACGGTGCGCTGC MB-ODM4/5-83 CTGGGCGCACGGCACGCTGG	MB-0DN4/5-29	
WB-ODN4/5-82 TGTTGCGCACGGTGCGCTGC	$\overline{}$	
MB-ODNA/5-88 CTGGGCGCACGGCACGCTGG		
MB-ODM/5-84 CCCACCCCACCCACCCAAC		
MB-ODM4/5-85 GCAGGCGCTCGTCACGCCCC	MB-0DN4/5-85	CCACCCCCTCCTCACCCCCC

ODN	3equence .
MB-ODN5/5-1	CAT GC GGATC GG TG CG CT G C
MB-ODN5/5-2	CAGGCGGTGCGCAACGCCTG
MB-ODN5/5-8	CAT GC GGT GC GCAT CG CCAA
MB-0005/5-4	CACCCCCTCCCCCACCTCCT
MB-0DN5/5-5	C CA CC CC C T C CA CA C CA C A A
MB-ODN5/5-8	PCCTCCACCCCTTCCCCCAC
MB-00N5/5-7	A CAGC CAGTC CCTG CG CCAC
MB-00N5/5-8	TAGGCGAA GCGA TGGGGCCC
MB-00N5/5-9	T CAGC GAAGC GG TG CG CC CA
MB-0DN5/5-10	a fotogaa goog toggag og
MB-00N5/5-11	G GGTC GAATC GT GT CG CC T C
M B-ODN5/5-12	TAGGCGATGCGCAGGGCCTG
MB-00N5/5-18	ATCCCCATCCCCTCCCCCTC
MB-00N5/5-14	CCCTCCACACCCTCCCATTC
MB-00N5/5-15	TGCTCGTGGCGGCTCGGCAG
MB-0DN5/5-18	CCAGCGT GGCGA TGCGGGCA
MB-00N5/5-17	CCATCCTCCCCCACCCCATC
M B-ODN 5/5-18	TGGACGTGTCGTAGCGCAGG
M B-ODNS/5-19	
M B-ODN5/5-20	
MB-0DN5/5-21	AAATCGTTGCGGCACGGCAT
M B-ODN 5/5-22	ATCACGTTGCGCAGCGGGTG
M B-ODN5/5-28	AAATCGTCTCGAGGCGTTCC
MB-00N5/5-24	GTGGCGCAGCGTGGCGGTGG
M B-ODN \$45-25	TGGGCGCAGCGGCACGCTAT
M B-ODN \$45-28	TCTGCGCAGCGCATCGTTGA
M B-ODN 5/5-27	TGGGCGCA GCGTTA CGAA CT
M 8-ODN 5/5-28	CCCTCCCA CCCA CA CCTT CC
M B-ODN 5/5-29	TTGGCGCAACGCATCGGAGA
M B-ODN 5/5-80	G GA GC GCA AC GT TG CG CA T C
M B-ODN5/5-81	à cà ac cca te ceategae ga
M B-ODN \$ 5-82	ACCACCCTCCCCCTCAC
M B-ODN5/5-88	A CT GC GC T GC GG CA CGAC CC
MB-00N5/5-34	GTCTCCCTGCGCAGCGGGT
MB-00N5/5-35	CGGACGCTGCGTGACGTGGT
MB-0DN5-38	CTGACGCCTCGCCTCGAGCT

-4-

FIG. 4



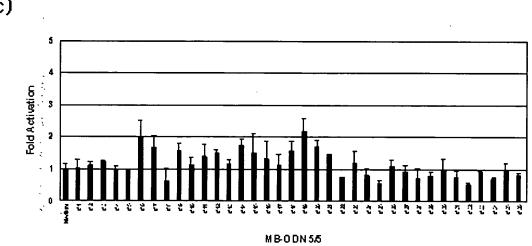


FIG. 5

a)

b)

Fold activation

ODN	Sequence
MB 4/5 #31	AGCAGCGTTCGTGTCGGCCT
#31.1	CAGCTCGTTCGTGTCGTGCT
#31.2	TGTGGCGTTCGTGTCGGTCT
#31.3	TGCRACGTTCGTGTCGCCAC
#31.4	GCCACGTTCGTGTCGGTAG
#31.5	GARCACGTTCGTGTCGGRAC
#31.6	CAGCACGTTCGTGTCGGACA
#31.7	TATGTCGTTCGTGTCGTCTT
#31.8	AAGGGCGTTCGTGTCGCTTG
#31.9	RITTGCGTTCGTGTCGATTC
#31.10	GCTGGCGTTCGTGTCGTCXT
#31.11	ATGGGCGTTCGTGTCGATCC
#31.12	GFATTCGTTCGTGTCGTCCT
#31.13	GGGRACGTTCGTGTCGGTGC
#31.14	TGACTCGTTCGTGTCGCATG
#31.15	GTCATCGTTCGTGTCGAGAC
#31.16	TTGCACGTTCGTGTCGATGA
#31.17	CAGCACGTTCGTGTCGGTCA

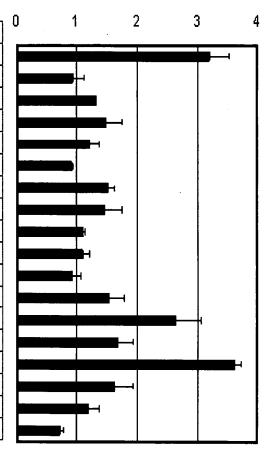


FIG. 6

a)

b)

Fold Activation (phIL-8-Luc)

ODN	Sequence
1B-ODN 31(O)	AGCAG <u>CG</u> TT <u>CG</u> TGT <u>CG</u> GCCT
MB-ODN 31(M)	AG <u>CG</u> TT <u>CG</u> TGT <u>CG</u> GC
#31-CG-1	AGCAGGCTT CGT GT CGGCCT
#31-CG-2	AGCAGCGTT GCT GT C GGCCT
#31-CG-3	AGCAGCGTT CGT GT GC GCCT
#31-CG-4	AGCAGGCTT GCT GT C GGCCT
#31-CG-5	AGCAGGCTTCGTGTGCGCCT
#31-CG-6	AGCAGCGTTGCTGCGCCT
#31-CG-7	AGCAGGCTTGCTGTGCGCCT
#31-A1	AGCAGCATTCGTGTCGGCCT
#31-A2	AGCAGCTTTCGTGTCGGCCT
#31-A3	AGCAGCCTTCGTGTCGGCCT
#31-B-1	AGCAGCGTTCATGTCGGCCT
#31-B-2	AGCAGCGTTCTTGTCGGCCT
#31-B3	AGCAGCGTTCCTGTCGGCCT
#31-C1	AGCAGCGTTCGTGTCAGCCT
#31-C-2	AGCAGCGTTCGTGTCTGCCT
#31-C3	AGCAGCGTTCGTGTCCGCCT
#31-D-1	AGCAGCATT CAT GT C GGC CT
#31-D-2	AGCAGCATT CGT GT CAGCCT
#31-D3	AGCAGCGTTCATGTCAGCCT

FIG. 7

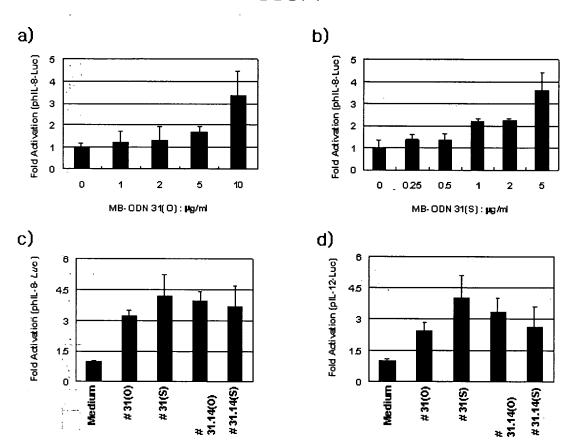


FIG. 8

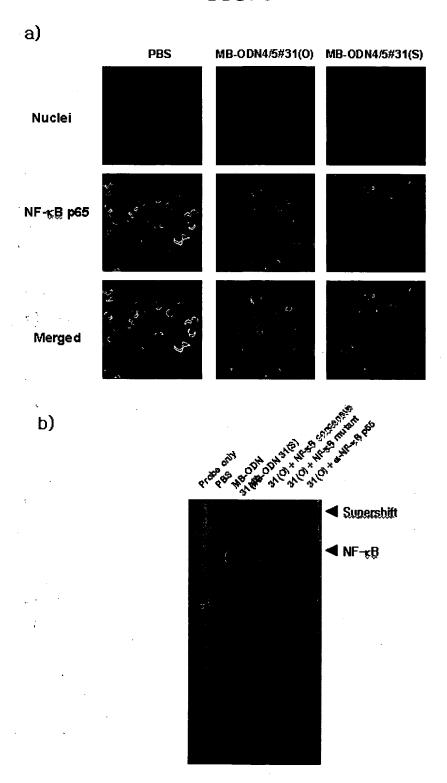


FIG. 9

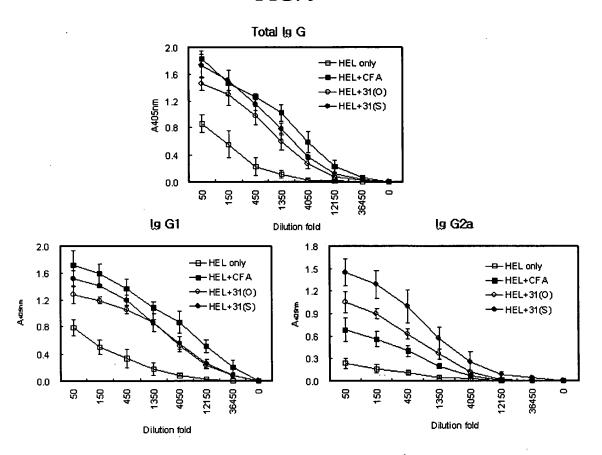


FIG. 10

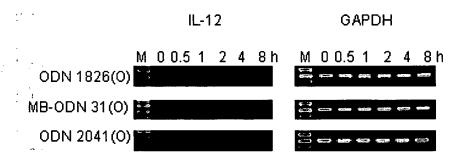


FIG. 11

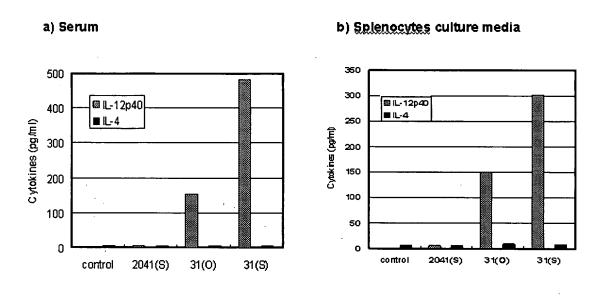


FIG. 12

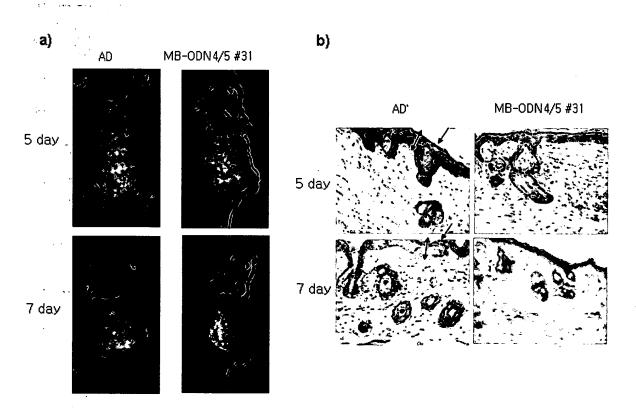


FIG. 13

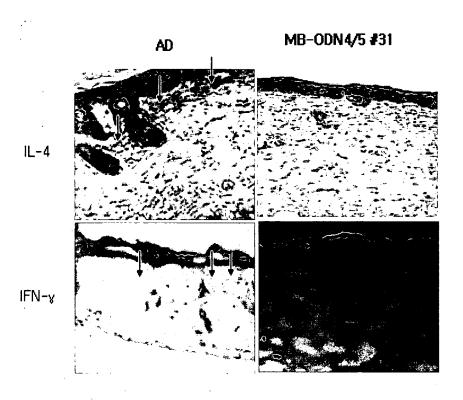


FIG. 14

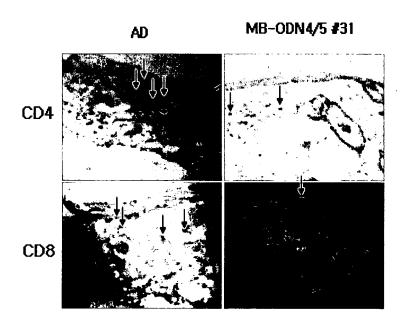


FIG. 15

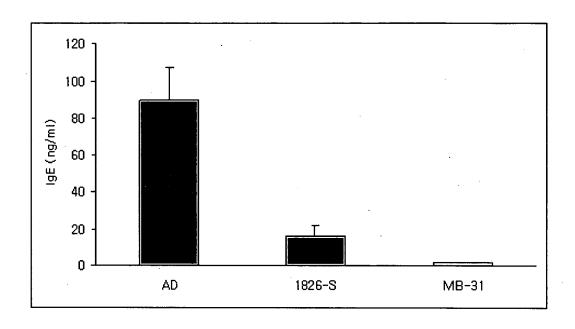


FIG. 16

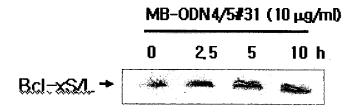


FIG. 17



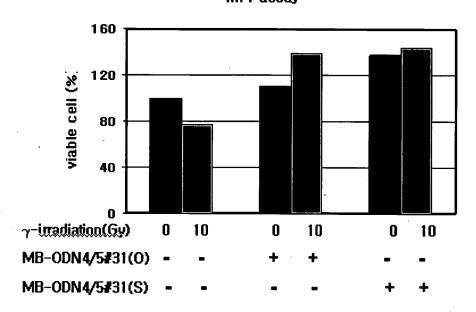


FIG. 18

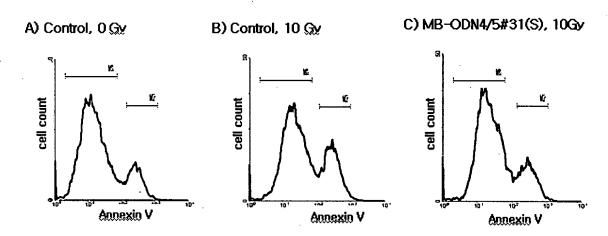


Fig.	γ -irradiation	MB-ODN 4/5 #31(S)	Marker	%Total
Α	0 Gv	(-)	M1 M2	73,54 16,709
В	10 Gy	(-)	M1 M2	58.82 27.24
С	10 წა	(+)	M1 M2	65, 25 18, 71

FIG. 19

